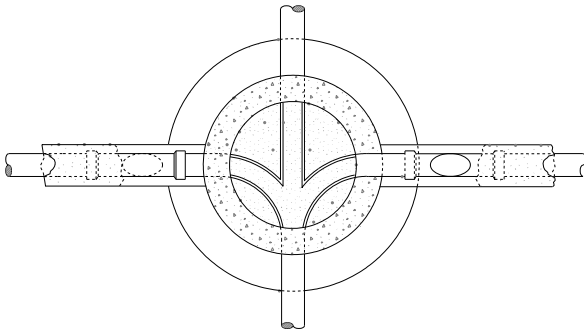


- NOTES:
1. FURNISH AS SHOWN ON PLANS AND/OR AT EACH MANHOLE WHERE SEWER LINE CROSSES OPEN FIELDS
 2. SIGNS TO BE CONSTRUCTED FROM 20 GA. STEEL BAKED ON ENAMEL FINISH. FURNISH ONE SIGN AND ONE POST FOR EACH MANHOLE INSTALLED ACROSS OPEN FIELD AND AT OTHER LOCATIONS AS SHOWN ON PLANS. FURNISH SAME NUMBER OF REPLACEMENT SIGNS AS FOR EACH INSTALLED (OMITTING MANHOLE NUMBER ON MANHOLE SIGN) (NOT A SEPARATE PAY ITEM)
 - 2" BLACK PRESSURE SENSITIVE NUMBERS TO BE ADDED AFTER BASIC SIGN HAS BEEN PAINTED.

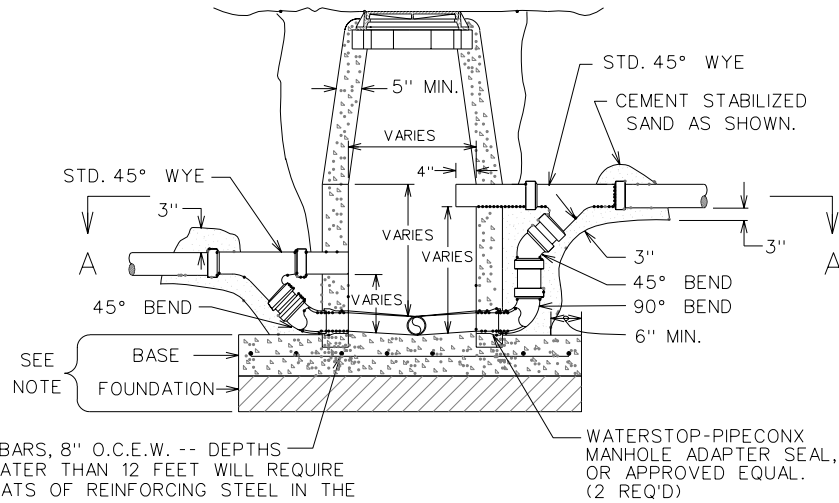
SEWER WARNING AND MANHOLE IDENTIFICATION SIGN

S1-00

NOTE:
MANHOLE BASE SHALL BE PLACED ON FIRM SUBGRADE.
ADDITION OF CEMENT STABILIZED SAND OR GRAVEL
MAY BE REQUIRED TO STABILIZE FOUNDATION.



SECTION A - A

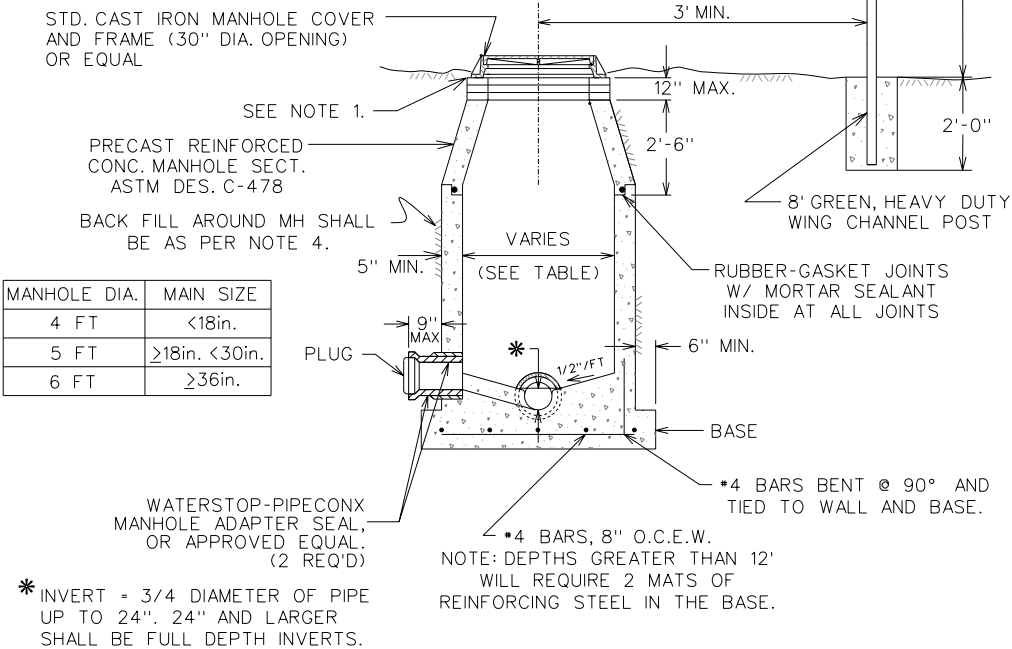


NOTE: CAP CLEAN-OUT AT BLIND FLANGE ON RESTRAINED JOINT FOR FORCE MAINS.

STANDARD DROP MANHOLE

S1-01

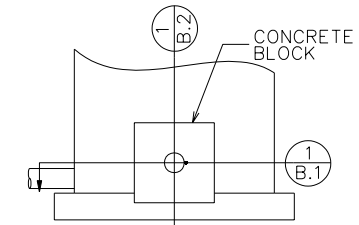
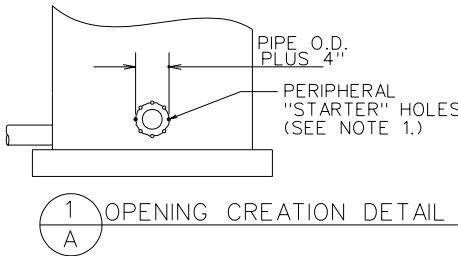
- NOTES:
1. A MAX. OF 4 AND A MIN. OF 2 THROAT RINGS SHALL BE USED AT EACH MANHOLE IN NEW OR EXISTING RIGHT-OF-WAY.
 2. USE ADEKA SEALANT OR APPROVED EQUAL BETWEEN RING/COVER, ADJUSTMENT RINGS AND CHIMNEY OR CORBEL/CONE SECTION.
 3. MANHOLE BASE THICKNESS AND FOUNDATION AS FOLLOWS:
MANHOLE DEPTH (FT.) BASE THICKNESS
0 - 12 8"
12 AND OVER 12"
 4. MANHOLE LOCATION AND COMPACTION AS FOLLOWS:
LOCATION COMPACTION REQUIREMENT
PAVEMENT 98 % STANDARD PROCTOR - ASTM D 698
LANDSCAPE AREA 90 % STANDARD PROCTOR - ASTM D 698
 5. NO RINGS ARE REQUIRED OUTSIDE OF STREET RIGHT-OF-WAY
 6. IN FLOODPLAINS, THE CONE SHALL EXTEND ABOVE THE BASE FLOOD ELEVATION OR A BOLT DOWN WATER-TIGHT RING AND COVER SHALL BE USED.
 7. WARNING SIGN ONLY TO BE PLACED WHERE SEWER CROSSES OPEN FIELDS.



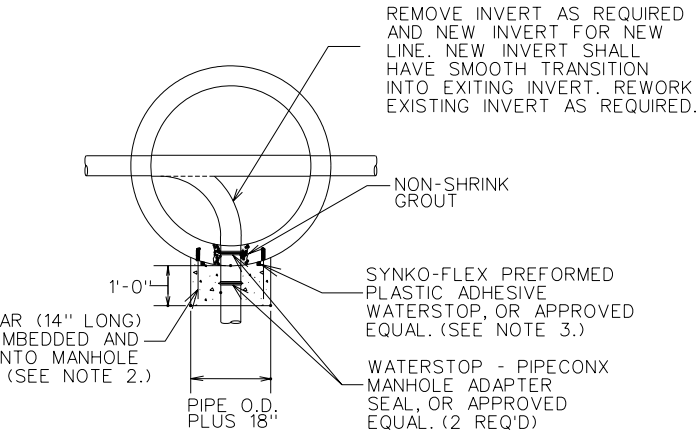
MANHOLE DIA.	MAIN SIZE
4 FT	<18in.
5 FT	≥18in. <30in.
6 FT	≥36in.

STANDARD MANHOLE

S1-02



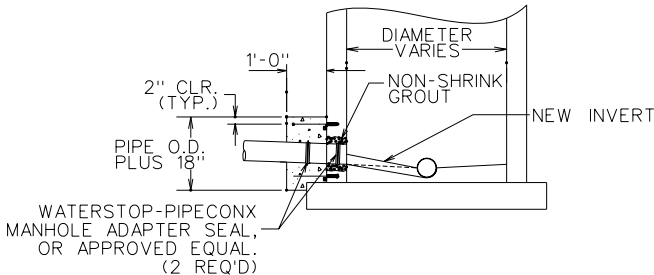
1 B MANHOLE CONNECTION DETAIL



1 B.1 CONNECTION DETAIL SECTION VIEW

STANDARD MANHOLE TIE-IN

- NOTES:
1. 1" DIA. "STARTER" HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE SPACED 3" APART CENTER TO CENTER. AFTER "STARTER" HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR, THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE INSIDE THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE REMOVED WITH PNEUMATIC HAND TOOLS.
 2. THE NUMBER OF REBAR DOWELS SHALL VARY WITH SIZE OF OPENING. REBAR SHALL NOT BE SPACED MORE THAN 12" CC.
 3. WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 4. CONCRETE SHALL BE 3,000 P.S.I.



1 B.2 CONNECTION DETAIL SECTION VIEW

S1-03

REVISIONS:

BRYAN - COLLEGE STATION
STANDARD SEWER DETAILS



DRAWN BY: *[Signature]*
DATE: 01-01-05
SCALE: N T S
APPROVED: W.P.K.
FIGURE:
S1
SHEET 1 OF 4